No AEE(4PR)/SBR/16/2017-18, dt: 29.07.2017

Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No 1st & Final Bill
Division : R.Nagara
Sub-Division :
Date .....20.....
Bill Received No..... Dated ..... Cash Book Voucher No..... dated .....
Scheduled Docket No.
Job Code No: 017-15-000030 Est. Cost: Rs. 50.00 Lakhs
Name of Work (as per sanctioned estimate) **Proposed construction of Gym building near HMT Ground (J.P Park) in Ward No.17.**
Name of Contractor and Full Address: **Sri M. MANJUNATH**
Reference Agreement : EE/RRND/Wo. No/**104**/2015-16 Date : 16/01/2016

Certified that the measurements were taken by me on 12/5/2017 And recorded of Pages 568101 to 568135 of measurement Book No. 5682/16-17 and that the work is satisfactorily executed.

Contractor M.M **Officer-in-charge of work**

Certified that the measurements were taken by me on 12.05.17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಹಣಾ ಅಭಿಯಂತರರು
ಉಪವಿಭಾಗದ ಕಛೇರಿ
ಹೊಸ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
Sub-Division Officer

If Memorandum of Payment

1)	Total value of work done or supplies made as per account within	Bill Amt	54,65,335=00
2)	Deduct amount to be held in reserve being ..... Percent Rs.....	IT	5465=00
3)	" Balance	VAT	21 8615=00
4)	Deduct Payments:	FSD	273270=00
	a) Amount of previous payment as in the Office Cash Book Voucher No..... Dated ..... S.D. No..... Amount adjusted towards cash advance recovery of	CWS	54655=00
	b) Payments cost store or other materials supplied. Now made recovery of amount creditable to this/other work Amount paid on this bill Cheque/Cash	CBF	5000=00
5)	Balance being unpaid value of work done held in reserve	Loyalty	89140=00
6)	Deduct cash advance made on the Office Cash Book Voucher No..... dated ..... Less adjustments	Deduct	6,95,335=00
7)	Net amount due to or from contractor Unadjusted items	Nett	47,78,000=00
8)	Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied		

M.M
Contractor's Signature

Received Rs..... (in words)
.....
by Cash and by adjustment of Payment as per memorandum.

Witnesses :
1.
2.
Dated ..... **Signature of Contractor**
Paid by me by cheque No..... Dated .....

Initials of Officer making payment

Admitted Rs. 54,65,335=00
Cheque Rs. 47,70,000=00
Forty Seven Lakhs Seventy Thousand only
(For use in the Office)
Stamp
Adjustment Rs 695335=00

Case worker | Accounts Superintendent | Exective Engineer
Executive Engineer

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Item No	Item description	Unit	Previous Measurements		Present Measurement			Total -to-date		Remarks
			Qty.	Amount (Rs)	Quantity	Rate	Amount (Rs)	Quantity	Amount (Rs)	
1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits etc., in pits or in trenches 1.5m. in and above in width, in **Ordinary soil** not exceeding 1.5 m. in depth including dressing in bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50m. after breaking of clods complete as per specifications	Cum			119.70	207.00	24777.90	119.70	24777.90	
2	Providing and laying in position plain cement concrete of mix **1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms thick well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum			19.72	5470.00	107890.28	19.72	107890.28	
3	Providing and laying in position **reinforced cement concrete for design mix M20 (1:1.5:3)** with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.460 cum with superplastisiser @ 3 lts conforming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks and plinths etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications	Cum			105.00	8700.00	913500.00	105.00	913500.00	
4	(a) First Floor	Cum			12.22	6745.00	82423.90	12.22	82423.90	
5	Providing **TMT Fe-550 steel** reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and /or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, lobour, HOM of machinery complete as per specifications.	Ton			15.00	76120.00	1141800.00	15.00	1141800.00	
6	Providing and removing **centering**, shuttering, strutting, propping etc, and removal of form work for foundations, foctings, bases of columns for **mass concrete** including cost of all materials, labour complete as per specifications.	Sqm			134.40	150.00	20160.00	134.40	20160.00	
7	Providing and removing **centering,** shuttering, strutting, propping etc, and removal of form work **for vertical surface** such as walls at any thickness, including attached pilasters, buttresses, plinth and string curses cost of all materials, labour complete as per specifications.	Sqm			195.00	331.00	64545.00	195.00	64545.00	
8	Providing and removing **centering,** shuttering, strutting, propping etc, **for columns**, pillars, piers, abutments, post and sruts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification.	Sqm			64.80	413.00	26762.40	64.80	26762.40	
9	(a) First Floor	Sqm			51.80	436.00	22584.80	51.80	22584.80	
10	Providing and removing **centering,** shuttering, strutting, propping etc, and removal of form work **for sides and soffits** of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications.	Sqm			78.02	383.00	29881.66	78.02	29881.66	
11	(a) First Floor	Sqm			17.94	405.00	7265.70	17.94	7265.70	
12	Providing and removing **centering,** shuttering, strutting, propping etc, and removal of form work **for flat surface** such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications.	Sqm			105.80	200.00	21160.00	105.80	21160.00	
13	(a) First Floor	Sqm			105.80	378.00	39992.40	105.80	39992.40	
14	Providing and constructing granite/ trap/basalt size stone masonry in **foundation** with cement mortar 1:6 stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification	Cum			12.38	4454.00	55140.52	12.38	55140.52	
15	Providing and laying in position **plain cement concrete of mix M10 (1:3:6)** with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.84 cum and fine aggregates @ 0.56cum machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum			1.50	5925.00	8887.50	1.50	8887.50	
16	**Filling available excavated earth** (excluding rock) in sides of foundations up to plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m including cost of all labour complete as per specifications.	Cum			55.20	138.00	7617.60	55.20	7617.60	
17	Providing and constructing **non-load bearing wall** with cement concrete solid blocks with compressive strength not less than 3.5 newton per sqm with cement mortar 1:4 (jamb, closer blocks) with blocks of size 40x10x20cms (lxbxh) conforming to I.S. 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.	Sqm			134.76	1097.00	147831.72	134.76	147831.72	
18	(a) First Floor	Sqm			156.66	1131.00	177182.46	156.66	177182.46	
19	Providing 12mm thick cement plaster in single coat with cement mortar **1:4, to ceiling** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications	Sqm			144.20	258.00	37203.60	144.20	37203.60	
20	(a) First Floor	Sqm			158.00	264.00	41712.00	158.00	41712.00	

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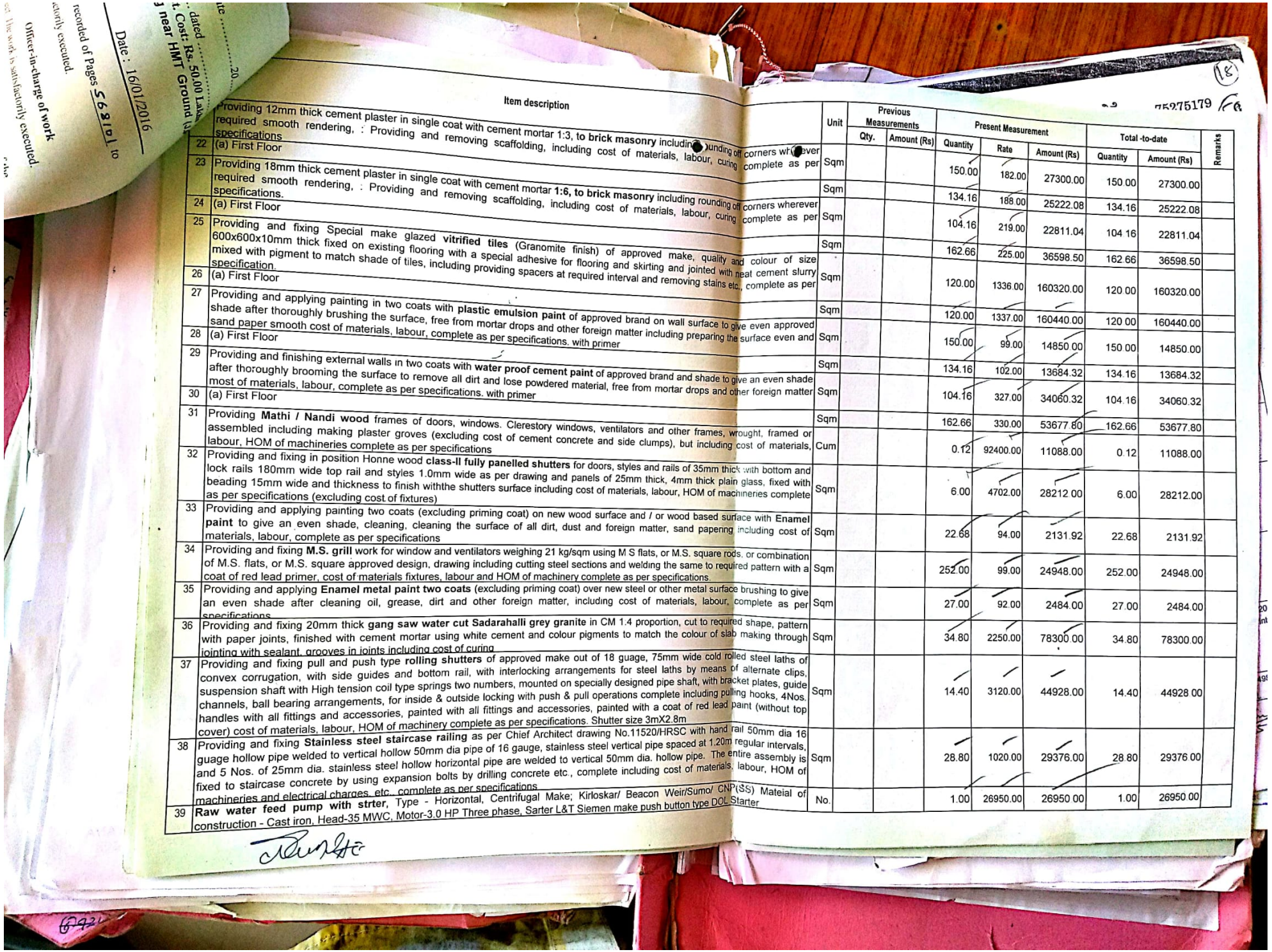

	Item description	Unit	Previous Measurements		Present Measurement			Total -to-date		Remarks
			Qty.	Amount (Rs)	Quantity	Rate	Amount (Rs)	Quantity	Amount (Rs)	
22	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, **to brick masonry** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (a) First Floor	Sqm			150.00	182.00	27300.00	150.00	27300.00	
23	Providing 18mm thick cement plaster in single coat with cement mortar **1:6, to brick masonry** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm			134.16	188.00	25222.08	134.16	25222.08	
24	(a) First Floor	Sqm			104.16	219.00	22811.04	104.16	22811.04	
25	Providing and fixing Special make glazed **vitrified tiles** (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special adhesive for flooring and skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc., complete as per specification.	Sqm			162.66	225.00	36598.50	162.66	36598.50	
26	(a) First Floor	Sqm			120.00	1336.00	160320.00	120.00	160320.00	
27	Providing and applying painting in two coats with **plastic emulsion paint** of approved brand on wall surface to give even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth cost of materials, labour, complete as per specifications. with primer	Sqm			120.00	1337.00	160440.00	120.00	160440.00	
28	(a) First Floor	Sqm			150.00	99.00	14850.00	150.00	14850.00	
29	Providing and finishing external walls in two coats with **water proof cement paint** of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and lose powdered material, free from mortar drops and other foreign matter most of materials, labour, complete as per specifications. with primer	Sqm			134.16	102.00	13684.32	134.16	13684.32	
30	(a) First Floor	Sqm			104.16	327.00	34060.32	104.16	34060.32	
31	Providing **Mathi / Nandi wood** frames of doors, windows. Clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clumps), but including cost of materials, labour, HOM of machineries complete as per specifications	Sqm			162.66	330.00	53677.80	162.66	53677.80	
32	Providing and fixing in position Honne wood **class-II fully panelled shutters** for doors, styles and rails of 35mm thick with bottom and lock rails 180mm wide top rail and styles 1.0mm wide as per drawing and panels of 25mm thick, 4mm thick plain glass, fixed with beading 15mm wide and thickness to finish withthe shutters surface including cost of materials, labour, HOM of machineries complete as per specifications (excluding cost of fixtures)	Cum			0.12	92400.00	11088.00	0.12	11088.00	
33	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with **Enamel paint** to give an even shade, cleaning, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications	Sqm			6.00	4702.00	28212.00	6.00	28212.00	
34	Providing and fixing **M.S. grill** work for window and ventilators weighing 21 kg/sqm using M S flats, or M.S. square rods. or combination of M.S. flats, or M.S. square approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials fixtures, labour and HOM of machinery complete as per specifications.	Sqm			22.68	94.00	2131.92	22.68	2131.92	
35	Providing and applying **Enamel metal paint two coats** (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications	Sqm			252.00	99.00	24948.00	252.00	24948.00	
36	Providing and fixing 20mm thick **gang saw water cut Sadarahalli grey granite** in CM 1.4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing	Sqm			27.00	92.00	2484.00	27.00	2484.00	
37	Providing and fixing pull and push type **rolling shutters** of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mX2.8m	Sqm			34.80	2250.00	78300.00	34.80	78300.00	
38	Providing and fixing **Stainless steel staircase railing** as per Chief Architect drawing No.11520/HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 gauge, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos. of 25mm dia. stainless steel hollow horizontal pipe are welded to vertical 50mm dia. hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications	Sqm			14.40	3120.00	44928.00	14.40	44928.00	
39	**Raw water feed pump with strter**, Type - Horizontal, Centrifugal Make; Kirloskar/ Beacon Weir/Sumo/ CNP(SS) Mateial of construction - Cast iron, Head-35 MWC, Motor-3.0 HP Three phase, Sarter L&T Siemen make push button type DOL Starter	No.			28.80	1020.00	29376.00	28.80	29376.00	
					1.00	26950.00	26950.00	1.00	26950.00	

Officer-in-charge of work

Date : 16/01/2016

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	Item description	Unit	Previous Measurements		Present Measurement			Total -to-date		Remarks
			Qty.	Amount (Rs)	Quantity	Rate	Amount (Rs)	Quantity	Amount (Rs)	
	Multi graded sand filter, type - verticale, Floor Mounted, Make-Pentair/strucutre / ON EXCHANGE (INDIA)LTD / Zeolite / Aquorio, Min. operating pressure 2.0kg/cm2, Max. Operating pressure - 3.5kg/cm2, Tretment Flow Rqate - 6000 litres/Hr, Type of valve Size - Multiport, 50NB, make-UKL/intitative, Filtering media-Gravel, Graded Sand and Pebble									
41	Activated Carbon Filter type - verticale, Floor Mounted, Make-Pentair/strucutre / ON EXCHANGE (INDIA)LTD / Zeolite / Aquorio, Min. operating pressure 2.0kg/cm2, Max. Operating pressure - 3.5kg/cm2, Tretment Flow Rqate - 6000 litres/Hr, Type of valve Size - Multiport, 50NB, make-UKL/intitative, Filtering media-Gravel, Graded Sand and Pebble.- verticale, Floor Mounted, Make-Pentair/strucutre / ON EXCHANGE (INDIA)LTD / Zeolite / Aquorio, Min. operating pressure 2.0kg/cm2, Max. Operating pressure - 3.5kg/cm2, Tretment Flow Rqate - 6000 litres/Hr, Type of valve Size - Multiport, 50NB, make-UKL/intitative, Filtering media-Gravel, Graded Sand and Pebble.	No.			1.00	36218.00	36218.00	1.00	36218.00	
42	**Water Softner type** - verticale, Floor Mounted, Make-Pentair/strucutre / ON EXCHANGE (INDIA)LTD / Zeolite / Aquorio, Min. operating pressure 2.0kg/cm2, Max. Operating pressure - 3.5kg/cm2, Tretment Flow Rqate - 6000 litres/Hr, Type of Resin INDION 220Na or Thermax T40	No.			1.00	68700.00	68700.00	1.00	68700.00	
43	**Antiscalant Dosing System**: Equipment Required - Electronic Dosing pump with solution Tank, make-ION Exchange (I) Ltd.,/ ASIA LMI / Zeolite, Mateiral of Cosntruction - PP (Polypropolene), Discharge @ Max. Back pressure-2.88 ltr/Hr. @ 8bar, Discharge @ Nominal Back Pressure - 3.12 Ltr/Hr. @ 4Bar, Chemical to be dosed-INDION Artiscalant.	No			1.00	68045.00	68045.00	1.00	68045.00	
44	**Accessories for Dosing system,** Solution Tank - One No. Volume-100 Ltrs, Material of Cosntruction-HDPE, Tank level Switch-One No.	No.			1.00	93288.00	93288.00	1.00	93288.00	
45	**Reverse Osmosis System:** Type-Horizontal Skid, Floor Mounted, Premeate water-Minimum 2000 ltr/hr.. Maximum pressiable TDS in feed (PPM)-2500	No.			1.00	46095.00	46095.00	1.00	46095.00	
46	Pressure vessel, material of cosntruction - FRP, Make -Advance Composite/ Code line.	No.			1.00	97800.00	97800.00	1.00	97800.00	
47	Membrane, Type-Brackish water Nos required - Three / Make: TORAY JAPAN / Hydranautics / Filmtec / Tricap	No.			1.00	93288.00	93288.00	1.00	93288.00	
48	**High Pressure pump Type** - Verticle, multistage, Make - GRUNDFOS, MOTOR-7.5 HP 3 Phase, Model - CRN Series, Material of construction - SS318, Starter-L&T / Seimens make push button type DOL starter.	No.			1.00	96600.00	96600.00	1.00	96600.00	
49	Micron Filter, Type-JUMBO, Material of construction of housing poly propelene	No.			1.00	60400.00	60400.00	1.00	60400.00	
50	Instruction, Wet panel, MS powder coated, Mounted on R.O. skid, low pressure switch-one No. High Pressure switch-One Digital conductivity Meter wlhy sensor, Indon brand - One No. ON/OFF selector switch-one No. High presure system pressure gauge - One No. Auto Flush Timer - One No. Indication Lamps-one No. Product Flow Meter-one No. Reject Flow Meter-one No Reject Re-circulation Meter-one No Alaram-One No.	No.			1.00	85605.00	85605.00	1.00	85605.00	
51	**pH correction dosing system**, equipment required - Eletronic Dosing pump with solution Tank, Make-ion Exhange (I) Ltd., / ASIA LMI / Zeolite, Mateial of constuctio - PP, Discharge @ max. Back pressure 2.88 Lit/Hr @ 8Bar. Discharge @ Nominal Back Pressure-3.12 Ltr/Hr @ 4bar, Frequency-100 Strokes/Min, Chemical to be dosed-PH Booster.	No.			1.00	93485.00	93485.00	1.00	93485.00	
52	**Solution Tank** with level switch, Solution Tank - one No. Volume-100 Ltrs. Material of constuction-HDPE Tank level Switch-one No.	No.			1.00	91093.00	91093.00	1.00	91093.00	
53	**Inter-connecting pipe work**, Raw wter to fee dpump suction and fee dpump delivery to R.O. Inlet (Up to high pressure pump in let) and RO outlet to Treated water tank-food grade PVC pipe 40mm NB, Make0Finolex/supreme, High pressure pump outlet to membrne intel-SS pipe of rquired size, Approximate Length-35 mtr.	No.			1.00	16463.00	16463.00	1.00	16463.00	
54	**Ultra violet system,** Model-UVS-20, Make-ion Exchange (I) Ltd., / ASIA / LMI / Zeolite, ALFA Flow rate-2000 L/H.	No.			1.00	85605.00	85605.00	1.00	85605.00	
55	**RO Water strong tank**, 2000 ltrs. SS Tank to Store RO Water with required nozzles.	No.			1.00	81900.00	81900.00	1.00	81900.00	
56	Wending machine, Digital Swiping Card type	No.			1.00	88000.00	88000.00	1.00	88000.00	
	Sinking borwell of 165mm dia. Clear, using fast rig in all strata including over burden upto 20mtrs fixing of casin gpipes, collars and cap with necessary cutting and threading including transportation of Rig and supporting vehicle, crew change and cost of consumables etc., complete including yiled testing at the final depth with a minimum working of compressor for one hour. (excluding cost of casing pipes, collars and cap etc..)	No.			1.00	38413.00	38413.00	1.00	38413.00	
57	a) 0.00 to 50.00 mtrs.	Rmt			50.00	336.00	16800.00	50.00	16800.00	
58	b) 50.00 to 100.00 mtrs.	Rmt			50.00	439.00	21950.00	50.00	21950.00	
59	c) 100.00 to 150.00 mtrs.	Rmt			50.00	488.00	24400.00	50.00	24400.00	
60	d) 1500.00 to 200.00 mtrs.	Rmt			50.00	516.00	25800.00	50.00	25800.00	
61	e) 200.00 to 250.00 mtrs.	Rmt			50.00	597.00	29850.00	50.00	29850.00	

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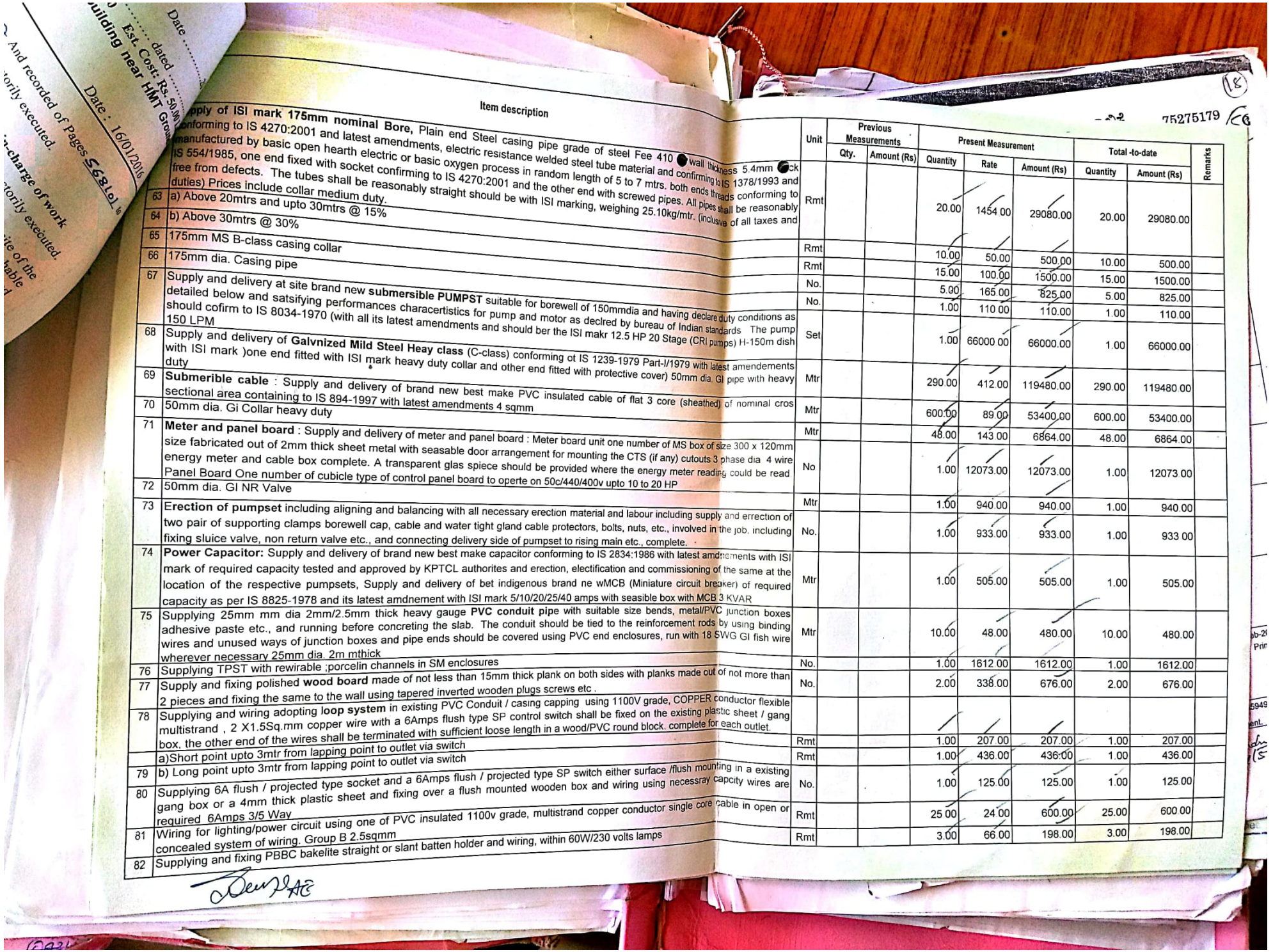

Item description

	Item description	Unit	Previous Measurements		Present Measurement			Total -to-date		Remarks
			Qty.	Amount (Rs)	Quantity	Rate	Amount (Rs)	Quantity	Amount (Rs)	
	pply of ISI mark 175mm nominal Bore, Plain end Steel casing pipe grade of steel Fee 410 ● wall thickness 5.4mm ● ck onforming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1378/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mtrs. both ends threads conforming to IS 554/1985, one end fixed with socket confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking, weighing 25.10kg/mtr. (inclusive of all taxes and duties) Prices include collar medium duty.	Rmt			20.00	1454.00	29080.00	20.00	29080.00	
63	a) Above 20mtrs and upto 30mtrs @ 15%	Rmt			10.00	50.00	500.00	10.00	500.00	
64	b) Above 30mtrs @ 30%	Rmt			15.00	100.00	1500.00	15.00	1500.00	
65	175mm MS B-class casing collar	No.			5.00	165.00	825.00	5.00	825.00	
66	175mm dia. Casing pipe	No.			1.00	110.00	110.00	1.00	110.00	
67	Supply and delivery at site brand new **submersible PUMPST** suitable for borewell of 150mmdia and having declare duty conditions as detailed below and satsifying performances characertistics for pump and motor as declred by bureau of Indian standards The pump should cofirm to IS 8034-1970 (with all its latest amendments and should ber the ISI makr 12.5 HP 20 Stage (CRI pumps) H-150m dish 150 LPM	Set			1.00	66000.00	66000.00	1.00	66000.00	
68	Supply and delivery of **Galvnized Mild Steel Heay class** (C-class) conforming ot IS 1239-1979 Part-I/1979 with latest amendements with ISI mark)one end fitted with ISI mark heavy duty collar and other end fitted with protective cover) 50mm dia. GI pipe with heavy duty	Mtr			290.00	412.00	119480.00	290.00	119480.00	
69	**Submerible cable** : Supply and delivery of brand new best make PVC insulated cable of flat 3 core (sheathed) of nominal cros sectional area containing to IS 894-1997 with latest amendments 4 sqmm	Mtr			600.00	89.00	53400.00	600.00	53400.00	
70	50mm dia. Gi Collar heavy duty	Mtr			48.00	143.00	6864.00	48.00	6864.00	
71	**Meter and panel board** : Supply and delivery of meter and panel board : Meter board unit one number of MS box of size 300 x 120mm size fabricated out of 2mm thick sheet metal with seasable door arrangement for mounting the CTS (if any) cutouts 3 phase dia 4 wire energy meter and cable box complete. A transparent glas spiece should be provided where the energy meter reading could be read Panel Board One number of cubicle type of control panel board to operte on 50c/440/400v upto 10 to 20 HP	No			1.00	12073.00	12073.00	1.00	12073.00	
72	50mm dia. GI NR Valve	Mtr			1.00	940.00	940.00	1.00	940.00	
73	E**rection of pumpset** including aligning and balancing with all necessary erection material and labour including supply and errection of two pair of supporting clamps borewell cap, cable and water tight gland cable protectors, bolts, nuts, etc., involved in the job. including fixing sluice valve, non return valve etc., and connecting delivery side of pumpset to rising main etc., complete.	No.			1.00	933.00	933.00	1.00	933.00	
74	**Power Capacitor:** Supply and delivery of brand new best make capacitor conforming to IS 2834:1986 with latest amdnements with ISI mark of required capacity tested and approved by KPTCL authorites and erection, electification and commissioning of the same at the location of the respective pumpsets, Supply and delivery of bet indigenous brand ne wMCB (Miniature circuit breaker) of required capacity as per IS 8825-1978 and its latest amdnement with ISI mark 5/10/20/25/40 amps with seasible box with MCB 3 KVAR	Mtr			1.00	505.00	505.00	1.00	505.00	
75	Supplying 25mm mm dia 2mm/2.5mm thick heavy gauge **PVC conduit pipe** with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18 SWG GI fish wire wherever necessary 25mm dia. 2m mthick	Mtr			10.00	48.00	480.00	10.00	480.00	
76	Supplying TPST with rewirable ;porcelin channels in SM enclosures	No.			1.00	1612.00	1612.00	1.00	1612.00	
77	Supply and fixing polished **wood board** made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc .	No.			2.00	338.00	676.00	2.00	676.00	
78	Supplying and wiring adopting **loop system** in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand , 2 X1.5Sq.mm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.									
	a)Short point upto 3mtr from lapping point to outlet via switch	Rmt			1.00	207.00	207.00	1.00	207.00	
79	b) Long point upto 3mtr from lapping point to outlet via switch	Rmt			1.00	436.00	436.00	1.00	436.00	
80	Supplying 6A flush / projected type socket and a 6Amps flush / projected type SP switch either surface /flush mounting in a existing gang box or a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessray capcity wires are required 6Amps 3/5 Way	No.			1.00	125.00	125.00	1.00	125.00	
81	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multistrand copper conductor single core cable in open or concealed system of wiring. Group B 2.5sqmm	Rmt			25.00	24.00	600.00	25.00	600.00	
82	Supplying and fixing PBBC bakelite straight or slant batten holder and wiring, within 60W/230 volts lamps	Rmt			3.00	66.00	198.00	3.00	198.00	

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	Item description	Unit	Previous Measurements		Present Measurement			Total -to-date		Remarks
			Qty.	Amount (Rs)	Quantity	Rate	Amount (Rs)	Quantity	Amount (Rs)	
	Supplying and fixing **LED type panel board** indicating lamp with required colour suitable for 220V AC 50Hz 12/24V DC.	No.			1.00	510.00	510.00	1.00	510.00	
85	Supplying and **LTUG cable** having aluminium conductor PVC insulated sheathed, galvanized steel wire/steel tape armoured cable with PVC outer sheathing 1.1KV class (conforming to IS 1554) Class-A Labour charges for laying 1.1kV class UG cable when supplied departmentally/agency in existing trench GI pipe/stoneware pipe/on wall/on pole as required	Rmt			12.00	178.00	2136.00	12.00	2136.00	
86	**Digging of trench** of 0.6m deep x 0.50mtr. wide refilling the trench to the required ground level and consolidating etc., complete. in soil (Ordinary)	Rmt			12.00	9.00	108.00	12.00	108.00	
87	Supplying & fixing of class A **GI pipe** on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 65mm (upto 150 sqmm)	Rmt			8.00	47.00	376.00	8.00	376.00	
88	Supplying & fixing of heavy duty **cable glands** suitable for UG Cable of 1.1KV class 25mm dia	Rmt			6.00	284.00	1704.00	6.00	1704.00	
89	Supplying & fixing **miniature circuit breakers**/ isolators on existing MCB distribution boards using necessary fixing materials and wiring complete as required 5-32 Amps TPN	No.			1.00	78.00	78.00	1.00	78.00	
90	Supplying **porcelain fuse channel** with cutouts on existing wooden / panel using necessary nuts, bolts and washers etc., complete 32 Amps	No.			1.00	1191.00	1191.00	1.00	1191.00	
91	Supplying and fixing **LT cast iron pot heat** suitable for 1.1KV UG cable field with necessary insulating compound complete with terminal clamps, bolts and nuts and washers etc., (a) 16 sqmm	No.			5.00	118.00	590.00	5.00	590.00	
92	Supplying, fixing, wiring, **earth electrode** for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia. 2.90mm thick GI pipe 2.5mtr. long buried in a pit. The Pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 120mm dia. bolt, nuts, washers and checknuts etc., the pipe shall have 16 through of 122mm dia	No.			1.00	308.00	308.00	1.00	308.00	
93	Supplying decorative horizontal type **street light flouresecent** fiftting whather nd water proof complete with low loss open construction copper wound ferroragnetic ballast, starter locking type brass contact holders with 1 No. of 4 fet 40 wats flurosent tube completely wired for use on 230/250 volts 50 cycles AC supply with opal needed perspex cover at bottom complete fitting	No.			1.00	2312.00	2312.00	1.00	2312.00	
94	Supplying and Fixing ofmm dia class A **GI pipe** bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.	No.			1.00	1695.00	1695.00	1.00	1695.00	
95	Supplying heavy gauge **PVC conduit pipe** .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 25mm dia. 2mm thick	Rmt			1.00	723.00	723.00	1.00	723.00	
96	Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary	Rmt			25.00	49.00	1225.00	25.00	1225.00	
97	**Groove cutting** : Supplying 25mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering upto the surface of the brick level and run through our the conduit wherever necessary. 25mm dia. 2mm thick	Rmt			25.00	45.00	1125.00	25.00	1125.00	
98	Supplying and fixing **sheet metal box** made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc. c) 135 x 75 x 65mm	Rmt			20.00	58.00	1160.00	20.00	1160.00	
99	d) 180 x 90 x 65mm	Each			1.00	94.00	94.00	1.00	94.00	
100	e) 200 x 90 x 65mm	Each			1.00	129.00	129.00	1.00	129.00	
101	Supplying and fixing **PVC metal conduit** accessories (3/5) Special type junction box. Medium point above 3 mtr. up to 6mtr from tapping point to out let via switch box Special type junction box	Each			1.00	140.00	140.00	1.00	140.00	
102	Supplying and flush mounting **teak wood box** without front palank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work complete. a) 12"x 12" x 3" (330 x 300 x 75mm)	Each			1.00	44.00	44.00	1.00	44.00	
103	b) 12"x9"x3"(300x228x76)	Mtr			5.00	107.00	535.00	5.00	535.00	
104	Supplying and wiring adopting **loop system** in existing PVC Conduit / casing capping using COPPER PVC insulated, multi strnd 2x1.5sqmm copper wire without sitch, the other end of the wires shall be terminated with sufficient loose length ina wood / PVC round block complete for each outlet a) Short point upto 3mtr from lapping point to outlet via switch	Mtr			5.00	88.00	440.00	5.00	440.00	
105	b) Medium point upto 3mtr upto 5mtr. from lapping point to outlet via switch	Each Point			2.00	192.00	384.00	2.00	384.00	
		Each Point			2.00	285.00	570.00	2.00	570.00	

Date : 16/01/2016

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	Item description	Unit	Previous Measurements		Present Measurement			Total -to-date		Remarks
			Qty.	Amount (Rs)	Quantity	Rate	Amount (Rs)	Quantity	Amount (Rs)	
	pplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated, multi stranded x1.5sqmm copper wire without sitch, the other end of the wires shall be terminated with sufficient loose length in wood / PVC round block complete for each outlet. (a) Short point up to 3mtr. from tapping point to out let via switch	Each			2.00	148.00	296.00	2.00	296.00	
	(b) Medium point upto 3mtr upto 6mtr. from lapping point to outlet via switch	Point								
108	Supplying and fixing superior quality **modular switch** mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. 6 Module	Each			2.00	247.00	494.00	2.00	494.00	
109	Supplying and fixing modular switch / socket/ stepped electronic fan regularo / dimmer / telephone socket etc., on existing modular switch plate a) 6 Amps one way'	Each			2.00	137.00	274.00	2.00	274.00	
110	b) 32 Amps DP Switch	Each			2.00	105.00	210.00	2.00	210.00	
111	6/16 Amps universal socket	Each			2.00	401.00	802.00	2.00	802.00	
112	Supplying and fixing 32Amps security and **energy saving DP** switch with key tag suitable to operate on 230 Volts, 50Hz AC supply & completely wired on existing box.	Each			2.00	225.00	450.00	2.00	450.00	
113	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring (a) 1 sqmm	Each			2.00	691.00	1382.00	2.00	1382.00	
114	b) 1.5 sqmm	Mtr			60.00	12.00	720.00	60.00	720.00	
115	c) 6 Sqmm	No.			60.00	16.00	960.00	60.00	960.00	
116	Supplying and fixing of **PVC casing and capping** on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm .... etc. as required.(a) 20mm	No.			53.00	57.00	3021.00	53.00	3021.00	
117	Supplying PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated completely (a) 20mm	Mtr			10.00	39.00	390.00	10.00	390.00	
118	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size .....mm conduit using necessary machine screws.b) 110mm	No.			12.00	49.00	588.00	12.00	588.00	
119	Supplying 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slab	No.			12.00	9.00	108.00	12.00	108.00	
120	Providing and fixing Chorinated Poly Venyl Chloride **(CPVC) pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete. (concealed work including cutting chases and good the walls etc.,) 20mm nominal OD pipes.	Mtr			20.00	4.00	80.00	20.00	80.00	
					26.00	233.00	6058.00	26.00	6058.00	
	Grand Total Rs.						5465453.42		5465453.42	

5465338.00

CERTIFICATE

1) Certified that the contractor has work done satisfactorily.
2) The contractor has removed the debris from work site.
3) There is no dept. material issued to the contractor

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Executive Engineer

Date : 16/01/2016

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